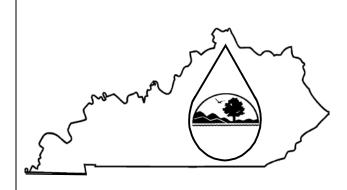
US ERA ARCHIVE DOCUMENT

KPDES FORM C



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: Fraley Branch Surface Mine	County: Pike	
	AGENCY	
I. OUTFALL LOCATION	USE	

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Outfall No.		LATITUDE			LONGITUDE	E		
(list)	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	RECEIVING WATER (name)	
DO-10	37	40	51	-82	22	06	Spring Branch	
DO-11	37	40	45	-82	22	05	Spring Branch	
DO-12	37	40	40	-82	22	02	Spring Branch	
DO-13	37	40	34	-82	33	57	Spring Branch	
DO-14	37	40	29	-82	21	52	Spring Branch	
DO-15	37	40	25	-82	21	49	Spring Branch	
DO-16	37	40	25	-82	21	51	Spring Branch	
DO-17	37	40	30	-82	21	57	Spring Branch	
P-1	37	40	19	-82	22	11	Fraley Branch	

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II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO.	OPERATION(S) CONTRIBU	JTING FLOW	TREATMENT			
(list)	Operation (list)	Operation (list) Avg/Design Flow (include units)		List Codes from Table C-1		
DO 10	C	26.26 -6- (1-)	Sedimentation	1-U		
DO-10	Surface runoff	26.36 cfs (peak)	Discharge to surface water	4-A		
DO-11	Surface runoff	19.72 of (nools)	Sedimentation	1-U		
DO-11	Surface runon	18.72 cfs (peak)	Discharge to surface water	4-A		
DO-12	Surface runoff	27.51 of a (mools)	Sedimentation	1-U		
DO-12	Surface runon	27.51 cfs (peak)	Discharge to surface water	4-A		
DO-13	Surface runoff	22 29 of a (mools)	Sedimentation	1-U		
DO-13	Surface runon	33.38 cfs (peak)	Discharge to surface water	4-A		
DO-14	Carefo oo waxaaff	25 17 of (nools)	Sedimentation	1-U		
DO-14	Surface runoff	25.17 cfs (peak)	Discharge to surface water	4-A		
DO-15	Surface runoff	22.72 of a (moole)	Sedimentation	1-U		
DO-15	Surface runon	33.73 cfs (peak)	Discharge to surface water	4-A		
DO-16	Surface runoff	22 11 of a (mools)	Sedimentation	1-U		
DO-10	Surface runon	33.11 cfs (peak)	Discharge to surface water	4-A		
DO-17	Surface runoff	11 45 of (nools)	Sedimentation	1-U		
DO-17	Surface runoff	11.45 cfs (peak)	Discharge to surface water	4-A		
P-1	Surface runoff	257 52 of (nools)	Sedimentation	1-U		
F-1	Surface runon	357.53 cfs (peak)	Discharge to surface water	4-A		

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C.	Except for sto	orm water runoff, leaks,	or spills, are any	of the discharges	described in	Items II-A or B	intermittent or	seasonal?
		Ves (Complete the fol	lowing table)	M	No. (G	o to Section III)		

OUTFALL	OPERATIONS	FREQU	ENCY	FLOW				
NUMBER	CONTRIBUTING	Days	Months	Flow	Rate	Total v	Duration	
	FLOW	Per Week	Per	(in n	ngd)	(specify w	vith units)	(in days)
			Year	, ,				
(list)	(list)	(specify	(specify	Long-Term	Maximum	Long-Term	Maximum	
		average)	average)	Average	Daily	Average	Daily	

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Ш	MAXIMUM PI	RODUCTIO	ON						
A.	Does an effluent g	guideline lir	nitation pro	mulgated by EPA und	er Section 304 of the Clean Water	Act ap	oply to your faci	lity?	
	Yes	(Complete	Item III-B)	List effluent guideline	category:				
	No ((Go to Secti	on IV)						
B.	Are the limitation	ns in the app	licable efflu	ent guideline expresse	ed in terms of production (or other	meası	ares of operation	1)?	
	Yes	(Complete	Item III-C)	No (Go to Section IV)				
C.					h represents the actual measurerable effluent guideline, and indicat				
			MAXIM	UM QUANTITY			Affected Out	falls	
Qı	nantity Per Day	Units	of Measure	Operatio	n, Product, Material, Etc. (specify)		(list outfall nun	nbers)	
					(эрссиу)				
IV.	IMPROVEME	ENTS							
	discharges descri orders, enforceme	bed in this	application?	? This includes, but is a letters, stipulations, c	tes or any other environmental s not limited to, permit condition court orders and grant or loan condition No (Go to Item IV-B)	s, adn	ninistrative or e	affect the nforcement	
IDI	ENTIFICATION OF C AGREEMENT, I		AFF	ECTED OUTFALLS	BRIEF DESCRIPTION OF PRO	IECT	FINAL COMPI	LIANCE DAT	
			No.	Source of Discharge			Required	Projected	
В.	B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.								
V.	INTAKE AND I	EFFLUEN'	Γ CHARAC	CTERISTICS					
	space NO' Use the space bel-	ce provided. TE: Tables ow to list ar	V-A, V-B, a	and V-C are included lutants (refer to SARA	ne set of tables for each outfall – A on separate sheets numbered 5-18. A Title III, Section 313) listed in T be discharged from any outfall. F	able C	-3 of the instruc	etions,	
					ort any analytical data in your pos			. 1100,	
	POLLUTAN	T	\$	SOURCE	POLLUTANT		SOURCE	C	
							•		
	NONE								

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						e or produce, or	expect to use or
	Yes (List all such pollutants belo	ow)			No (Go to Item	ı VI-B)	
	Yes (Complete Item VI-C)	\boxtimes	No (Go to I	tem V	II)		
expected le	evels of such pollutants which you a	pelow and anticipate v	describe in de will be dischar	tail to	o the best of you from each outfal	r ability at this at the lover the next 5	time the sources and 5 years. Continue on
							_
I. BIOLO	GICAL TOXICITY TESTING D	ATA					
						toxicity has bee	n made on any of your
	Yes (Identify the test(s) and desc	ribe their	purposes belo	w)	\boxtimes	No (Go to Se	ection VIII)
	Are your or discharge of the additional standard you have an charges or or the additional standard you have an charges or or the additional standard you have an acharges or or the additional standard you have an acharges or or the additional standard you have an acharges or or the additional standard you have an acharges or or the additional standard you have an acharges or or the additional standard you have an acharges or or the additional standard you have an acharges or or the additional standard you have an acharge you have you	Are your operations such that your raw materi discharge of pollutants may during the next 5 years (Complete Item VI-C) If you answered "Yes" to Item VI-B, explain the expected levels of such pollutants which you and additional sheets if you need more space. I. BIOLOGICAL TOXICITY TESTING Description of the property of the pollutants which you are applied to the pollutants which you are additional sheets if you need more space.	Are your operations such that your raw materials, procedischarge of pollutants may during the next 5 years excedischarge of pollutants may during the next 5 years excedischarge of yes (Complete Item VI-C) If you answered "Yes" to Item VI-B, explain below and expected levels of such pollutants which you anticipate additional sheets if you need more space. I. BIOLOGICAL TOXICITY TESTING DATA you have any knowledge of or reason to believe that any charges or on a receiving water in relation to your discharges.	Are your operations such that your raw materials, processes, or product discharge of pollutants may during the next 5 years exceed two times to year ("Yes" to Item VI-B, explain below and describe in de expected levels of such pollutants which you anticipate will be dischar additional sheets if you need more space. I. BIOLOGICAL TOXICITY TESTING DATA you have any knowledge of or reason to believe that any biological test charges or on a receiving water in relation to your discharge within the I	Are your operations such that your raw materials, processes, or products cardischarge of pollutants may during the next 5 years exceed two times the magnetic of years (Complete Item VI-C) No (Go to Item VI years). No (Go to Item VI years) and describe in detail to expected levels of such pollutants which you anticipate will be discharged for additional sheets if you need more space. I. BIOLOGICAL TOXICITY TESTING DATA you have any knowledge of or reason to believe that any biological test for a charges or on a receiving water in relation to your discharge within the last 3	Are your operations such that your raw materials, processes, or products can reasonably be discharge of pollutants may during the next 5 years exceed two times the maximum values. Yes (Complete Item VI-C) No (Go to Item VII) If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of you expected levels of such pollutants which you anticipate will be discharged from each outfal additional sheets if you need more space. I. BIOLOGICAL TOXICITY TESTING DATA you have any knowledge of or reason to believe that any biological test for acute or chronic charges or on a receiving water in relation to your discharge within the last 3 years?	Are your operations such that your raw materials, processes, or products can reasonably be expected to var discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item Yes (Complete Item VI-C) No (Go to Item VII) If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 additional sheets if you need more space. I. BIOLOGICAL TOXICITY TESTING DATA you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has bee charges or on a receiving water in relation to your discharge within the last 3 years?

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VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

VIII.

CONTRACT ANALYSIS INFORMATION

analyzed by each such laboratory or firm below)

Were any of the	analyses reported in Item V performed by a contract laboratory or consult	ing firm?	
	Yes (list the name, address, and telephone number of, and pollutants		No (Go to Section IX)

NAME	ADDRESS	TELEPHONE	POLLUTANTS
		(Area code & number)	ANALYZED (list)
Appalachian States Analytical,	P.O. Box 520	(606) 437-5616	Total Suspended Solids
LLC	Shelbiana, KY 41562		Antimony, Total
			Chromium, Total
			Nickel, Total
			Zinc, Total
			Sulfate
			pН
			Arsenic, , Total
			Copper, Total
			Selenium, Total
			Cyanide, Total
			Iron, Total
			Beryllium, Total
			Lead, Total
			Silver, Total
			Phenols, Total
			Hardness
			Manganese, Total
			Cadmium, Total
			Mercury, Total
			Thallium, Total

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
John Cline / Agent	(606) 353-7201
SIGNATURE // /	DATE
/ len (lino	09/03/2008

DOCUMEN

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

*The following tables include only those pollutants which are believed to be present in the sample or for which testing is required

V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)

OUTFALL NO.

I art A = 100 must provide the results of at least one analysis for every portutant in this table. Complete one table for each outlant, see instructions for additional deta	Part A –	You must provide the results of at least one anal	ysis for every pollutant in this table. Com	applete one table for each outfall. See instructions for additional details.
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1		2. EFFLUENT							TTS blank)	4. INTAKE (optional)		
1. POLLUTANT	a. Maximum Daily Value b. Maximum 30-Day Va (if available)				Value c. Long-Term Avg. Value (if available)		d. No. of	a. Concentration	b. Mass	a. Long-Term		b.
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	No of Analyses
Total Suspended Solids (TSS)	22						1	mg/L				
Flow (in units of MGD)	VAL No f		VAL	UE	VALU	JE	1	MG	D	VAL	UE	
рН	MINIMUM 7.02	MAXIMUM 7.02	MINIMUM	MAXIMUM			1	STANDAR	D UNITS			

Part B - In the MARK "X" column, place an "X" in the <u>Believed Present</u> column for each pollutant you know or have reason to believe is present. Place an "X" in the <u>Believed Absent</u> column for each pollutant you believe to be absent. If you mark the <u>Believed Present</u> column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1.	2	2.				3.	4.		6.					
POLLUTANT	MAR	K "X"			EF.	FLUENT	UNITS		INTAK	al)				
AND CAS NO.	a.	b.	a. Maximum Dai	ily Value	b. Maximum 3		c. Long-Tern		d.		b.	a. Long-Term Avg		b.
1			(1) (2)		Value (if avai	lable)	Value (if available)		No. of	No. of a.		Value		No. of
(if available)	Believed	Believed			(1)	(2)	(1)	(2)	Analyses	Concentration	Mass	(1)	(2)	Analyses
	Present	Absent	Concentration	Mass	Concentration	Mass	Concentration	Mass	-			Concentration	Mass	-
Hardness (as CaCO ₃)	X		414.77						1	mg/L				
Sulfate (as SO ₄) (14808-79-8)	X		399						1	mg/L				
Iron, Total (7439-89-6)	X		0.09						1	mg/L				
Manganese, Total (7439-96-6)	X		<0.01						1	mg/L				_

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

1.	2. MARK "X"				EFF	4. UNITS		5. INTAKE (optional)							
POLLUTANT And CAS NO.		a. Believed	b. Believed	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
(if available)		Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	·
METALS, CYAN	NIDE AND T	OTAL PHE	NOLS												
Antimony Total (7440-36-0)	X			<0.002						1	mg/L				
Arsenic, Total (7440-38-2)	X			<0.001						1	mg/L				
Beryllium Total (7440-41-7)	X			<0.005						1	mg/L				
Cadmium Total (7440-43-9)	X			<0.005						1	mg/L				
Chromium Total (7440-43-9)	X			<0.02						1	mg/L				
Copper Total (7550-50-8)	X			<0.01						1	mg/L				
Lead Total (7439-92-1)	X			<0.05						1	mg/L				
Mercury Total (7439-97-6)	X			<0.0002						1	mg/L				
Nickel, Total (7440-02-0)	X			<0.009						1	mg/L				
Selenium, Total (7782-49-2)	Х			<0.009						1	mg/L				

Part C – Continued															
1.	2. MARK "X"					EFF	3. LUENT	4. UNITS		5. INTAKE (optional)					
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	Analyses
METALS, CYAN	METALS, CYANIDE AND TOTAL PHENOLS (Continued)														
Silver, Total (7440-28-0)	X			<0.01						1	mg/L				
Thallium, Total (7440-28-0)	X			0.1						1	mg/L				
Zinc, Total (7440-66-6)	X			< 0.005						1	mg/L				
Cyanide, Total (57-12-5)	X			<0.01						1	mg/L				
Phenols, Total	X			<0.04						1	mg/L				